CAS-No.: MSDS



# **MATERIAL SAFETY DATA SHEET (MSDS)**

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

**Product identifier** 

Product form : Mixture

Product code : 0175A

Chemical structure



#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses 1.2.1.

Industrial/Professional use spec : Industrial

For professional use only

#### 1.2.2. Uses advised against

No additional information available

## Details of the supplier of the safety data sheet

Labogens Fine Chem Industries 1st Floor, Above Bank of India, Guru Vihar, Rahon Road, Ludhiana Pb. (141007) +91 9316777775, +91 7707855700 sales@labogens.com - www.Labogens.com

## **Emergency telephone number**

**Emergency number** : +91 7707855700 (9:00am - 6:00 pm)

# SECTION 2: Hazards identification

# Classification of the substance or mixture

# Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (dermal), H310

Category 1

Acute toxicity (inhal.), Category 2

H330

Acute toxicity (oral),

H300

Category 1

Skin corrosion/irritation, H314

Category 1A

Full text of H statements: see section 16

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# Adverse physicochemical, human health and environmental effects

No additional information available

## 2.2. Label elements

Signal word (CLP)

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS05

GHS06

: Danger

Hazard statements (CLP) : H300+H310+H330 - Fatal if swallowed, in contact with skin or if inhaled

H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP) : P260 - Do not breathe vapours, dust, fume, gas.

P264 - Wash hands, forearms and face thoroughly after handling.

P280 - Wear protective gloves, protective clothing, eye protection, face protection.

P284 - Wear respiratory protection.

P301+P310 - IF SWALLOWED: Immediately call a doctor. P302+P352 - IF ON SKIN: Wash with plenty of water.

# 2.3. Other hazards

No additional information available

# **SECTION 3: Composition/information on ingredients**

# 3.1. Substances

Not applicable

# 3.2. Mixtures

| Name                         | Product identifier   | %       | Classification according<br>to Regulation (EC) No.<br>1272/2008 [CLP]  |
|------------------------------|--|---------|--|
| Water                        | (CAS-No.) 7732-18-5<br>(EC-No.) 231-791-2                                | 50 - 75 | Not classified   |
| Hydrofluoric acid - solution | (CAS-No.) 7664-39-3<br>(EC-No.) 231-634-8<br>(EC Index-No.) 009-003-00-1 | 25 - 50 | Acute Tox. 1 (Dermal),<br>H310<br>Acute Tox. 3 (Inhalation),<br>H331<br>Acute Tox. 1 (Oral), H300<br>Skin Corr. 1A, H314<br>Eye Dam. 1, H318 |

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Full text of H-statements: see section 16

## **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Immediately call a

POISON CENTER/doctor.

First-aid measures after skin contact : Immediately call a POISON CENTER/doctor. Gently wash with plenty of soap and

water. Take off immediately all contaminated clothing.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

First-aid measures after ingestion : Rinse mouth. Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.

# 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : Causes severe skin burns and eye damage.

Symptoms/effects after inhalation : Fatal if inhaled.

Symptoms/effects after skin contact : Fatal in contact with skin.

Symptoms/effects after ingestion : Fatal if swallowed.

## 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Water spray.

Unsuitable extinguishing media : Do not use a heavy water stream.

# 5.2. Special hazards arising from the substance or mixture

No additional information available

## 5.3. Advice for firefighters

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory

protection.

# **SECTION** 6: Accidental release measures

# 6.1. Personal precautions, protective equipment and emergency procedures

## 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.

Emergency procedures : Ventilate area.

# 6.2. Environmental precautions

Avoid release to the environment.

# 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spillage. On land, sweep or shovel into suitable containers.

#### 6.4. Reference to other sections

No additional information available

# SECTION 7: Handling and storage

# 7.1. Precautions for safe handling

Precautions for safe handling : Do not breathe vapours. Avoid contact with skin and eyes. Do not get in eyes, on

skin, or on clothing.

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Hygiene measures

: Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep container tightly closed.

#### 7.3. Specific end use(s)

No additional information available

# **SECTION 8: Exposure controls/personal protection**

#### **Control parameters** 8.1.

No additional information available

#### **Exposure controls** 8.2.

Hand protection : Protective gloves

: Chemical goggles or face shield Eye protection Skin and body protection : Wear suitable protective clothing

Respiratory protection : [In case of inadequate ventilation] wear respiratory protection.

## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Molecular mass : 20.01 g/mol Colour : Clear colourless.

Odour : acrid odor.

Odour threshold : No data available

: 1 рΗ

Relative evaporation rate (butylacetate=1) : No data available

Melting point : < -36 °C

Freezing point : No data available

Boiling point : 108 °C

: No data available Flash point

: No data available Auto-ignition temperature

Decomposition temperature : No data available

: No data available Flammability (solid, gas)

Vapour pressure : 25 mm Hg at 20°C

Relative vapour density at 20 °C : 1.97

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Relative density : No data available

Density : 1.15 - 1.18

Solubility : Water: infinitely soluble

Log Pow : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidising properties : No data available

Explosive limits : No data available

#### 9.2. Other information

No additional information available

# SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Thermal decomposition generates: Corrosive vapours.

## 10.2. Chemical stability

Stable under normal conditions.

# 10.3. Possibility of hazardous reactions

No additional information available

# 10.4. Conditions to avoid

Open flame. Heat. Direct sunlight.

## 10.5. Incompatible materials

No additional information available

# 10.6. Hazardous decomposition products

Thermal decomposition generates: Corrosive vapours.

# **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity : Dermal: Fatal in contact with skin. Inhalation: Fatal if inhaled. Oral: Fatal if

swallowed.

| ATE CLP (oral)      | 0.5 mg/kg bodyweight |
|---------------------|----------------------|
| ATE CLP (dermal)    | 5 mg/kg bodyweight   |
| ATE CLP (gases)     | 100 ppmv/4h          |
| ATE CLP (vapours)   | 0.5 mg/l/4h          |
| ATE CLP (dust,mist) | 0.05 mg/l/4h         |

Skin corrosion/irritation : Causes severe skin burns and eye damage.

pH: 1

Serious eye damage/irritation : Serious eye damage, category 1, implicit

pH: 1

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified

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Carcinogenicity : Not classified

Reproductive toxicity : Not classified STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Potential adverse human health effects

and symptoms

: Fatal if swallowed. Fatal in contact with skin.

# **SECTION 12: Ecological information**

## 12.1. Toxicity

No additional information available

## 12.2. Persistence and degradability

No additional information available

# 12.3. Bioaccumulative potential

No additional information available

## 12.4. Mobility in soil

No additional information available

# 12.5. Results of PBT and vPvB assessment

No additional information available

# 12.6. Other adverse effects

No additional information available

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Product/Packaging disposal

recommendations

: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Ecology - waste materials : Hazardous waste due to toxicity.

## **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

## 14.1. UN number

UN-No. (ADR) : 1790 UN-No. (IMDG) : 1790

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# Safety Data Sheet

UN-No. (IATA) : 1790 UN-No. (ADN) : 1790 UN-No. (RID) : 1790

# 14.2. UN proper shipping name

Proper Shipping Name (ADR) : HYDROFLUORIC ACID
Proper Shipping Name (IMDG) : HYDROFLUORIC ACID
Proper Shipping Name (IATA) : Hydrofluoric acid

Proper Shipping Name (ADN) : HYDROFLUORIC ACID Proper Shipping Name (RID) : HYDROFLUORIC ACID

Transport document description (ADR)

: UN 1790 HYDROFLUORIC ACID, 8 (6.1), II, (E)

: UN 1790 HYDROFLUORIC ACID, 8 (6.1), II

Transport document description (ADN)

: UN 1790 HYDROFLUORIC ACID, 8 (6.1), II

: UN 1790 HYDROFLUORIC ACID, 8 (6.1), II

# 14.3. Transport hazard class(es)

## **ADR**

Transport hazard class(es) (ADR) : 8 (6.1)

Danger labels (ADR) : 8, 6.1



## **IMDG**

Transport hazard class(es) (IMDG) : 8 (6.1)
Danger labels (IMDG) : 8, 6.1



#### **IATA**

Transport hazard class(es) (IATA) : 8 (6.1) Hazard labels (IATA) : 8, 6.1



# **ADN**

Transport hazard class(es) (ADN) : 8 (6.1)
Danger labels (ADN) : 8, 6.1



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## RID

Transport hazard class(es) (RID) : 8 (6.1)

Danger labels (RID) : 8, 6.1

:



# 14.4. Packing group

Packing group (ADR) : II
Packing group (IMDG) : II
Packing group (IATA) : II
Packing group (ADN) : II
Packing group (RID) : II

# 14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

# 14.6. Special precautions for user

#### - Overland transport

Classification code (ADR) : CT1
Limited quantities (ADR) : 11
Excepted quantities (ADR) : E2

Packing instructions (ADR) : P001, IBC02
Mixed packing provisions (ADR) : MP15
Portable tank and bulk container : T8

instructions (ADR)

Portable tank and bulk container special : TP2

provisions (ADR)

Tank code (ADR) : L4DH
Tank special provisions (ADR) : TU14, TE21

Vehicle for tank carriage : AT Transport category (ADR) : 2

Special provisions for carriage - Loading, : CV13, CV28

unloading and handling (ADR)

Hazard identification number (Kemler No.) : 86

Orange plates :

86 1790

Tunnel restriction code (ADR) : E
EAC code : 2W
APP code : B

# - Transport by sea

Packing instructions (IMDG) : P001
Special packing provisions (IMDG) : PP81
IBC packing instructions (IMDG) : IBC02
IBC special provisions (IMDG) : B20
Tank instructions (IMDG) : T8
Tank special provisions (IMDG) : TP2

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EmS-No. (Fire): F-AEmS-No. (Spillage): S-BStowage category (IMDG): D

Stowage and handling (IMDG) : SW1, SW2, H2

Properties and observations (IMDG) : Colourless liquid with an irritating odour. Highly corrosive to glass, other siliceous

materials and most metals. Toxic if swallowed, by skin contact or by inhalation. Both the liquid and its fumes cause severe burns to skin, eyes and mucous membranes.

MFAG-No : 157

- Air transport

PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y840
PCA limited quantity max net quantity : 0.5L

(IATA)

PCA packing instructions (IATA) : 851
PCA max net quantity (IATA) : 1L
CAO packing instructions (IATA) : 855
CAO max net quantity (IATA) : 30L
ERG code (IATA) : 8P

- Inland waterway transport

Classification code (ADN) : CT1
Special provisions (ADN) : 802
Limited quantities (ADN) : 1 L
Excepted quantities (ADN) : E2

Equipment required (ADN) : PP, EP, TOX, A

Ventilation (ADN) : VE02 Number of blue cones/lights (ADN) : 2

- Rail transport

Classification code (RID) : CT1
Limited quantities (RID) : 1L
Excepted quantities (RID) : E2

Packing instructions (RID) : P001, IBC02

Mixed packing provisions (RID) : MP15

Portable tank and bulk container : T8

instructions (RID)

Portable tank and bulk container special

provisions (RID)

: TP2

Tank codes for RID tanks (RID) : L4DH

Special provisions for RID tanks (RID) : TU14, TE17, TE21, TT4

Transport category (RID) : 2

Special provisions for carriage - Loading,

unloading and handling (RID)

: CW13, CW28

Colis express (express parcels) (RID) : CE6
Hazard identification number (RID) : 86

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

# **SECTION 15: Regulatory information**

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

## 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list

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Contains no REACH Annex XIV substances

# 15.1.2. National regulations

#### Germany

Reference to AwSV : Water hazard class (WGK) 3, severe hazard to water (Classification according to

AwSV, Annex 1)

12th Ordinance Implementing the Federal

Immission Control Act - 12.BImSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

#### **Netherlands**

SZW-lijst van kankerverwekkende stoffen : None of the components are listed SZW-lijst van mutagene stoffen : None of the components are listed NIET-limitatieve lijst van voor de : None of the components are listed

voortplanting giftige stoffen - Borstvoeding

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen -

Vruchtbaarheid

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen - Ontwikkeling

: None of the components are listed

: None of the components are listed

#### **Denmark**

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct

contact with the product

#### 15.2. **Chemical safety assessment**

No additional information available

# SECTION 16: Other information

## Full text of H- and EUH-statements:

| Acute Tox. 1 (Dermal)     | Acute toxicity (dermal), Category 1           |
|---------------------------|---|
| Acute Tox. 1 (Oral)       | Acute toxicity (oral), Category 1             |
| Acute Tox. 2 (Inhalation) | Acute toxicity (inhal.), Category 2           |
| Acute Tox. 3 (Inhalation) | Acute toxicity (inhal.), Category 3           |
| Eye Dam. 1                | Serious eye damage/eye irritation, Category 1 |
| Skin Corr. 1A             | Skin corrosion/irritation, Category 1A        |
| H300                      | Fatal if swallowed.                           |
| H310                      | Fatal in contact with skin.                   |
| H314                      | Causes severe skin burns and eye damage.      |
| H318                      | Causes serious eye damage.                    |
| H330                      | Fatal if inhaled.                             |

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| <b>⊔</b> 331 | Loxic if inhaled. |  |
|--------------|-------------------|--|
| 11001        |                   |  |
|              |                   |  |

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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